

Product Information

Product ID B3278
CAS No. 58-85-5
Chemical Name Hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid

Synonym Biodermin, Coenzyme R, Vitamin H

Formula C₁₀H₁₆N₂O₃S

Formula Wt. 244.31

Melting Point 232-233 °C

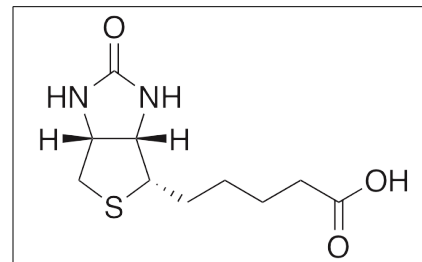
Purity ≥98%

Solubility Soluble in water (0.2 mg/mL).
Very soluble in hot water and dilute alkali. Insoluble in common organic solvents. DMSO to 49 mg/mL. 2 M NaOH to 50 mg/mL.

Store Temp Ambient

Ship Temp Ambient

Description Biotin is a water-soluble B vitamin (vitamin B7) that may be found in many foods but is also administered as a dietary supplement. Biotin is a coenzyme involved in the synthesis of fatty acids, isoleucine, and valine; it also plays a role in gluconeogenesis. Biotin may be found attached to lysine residues on histones, modulating genetic regulation. Biotin conjugates are used to study the binding of small, bioactive molecules to endogenous substrates.



Bulk quantities available upon request

Product ID	Size
B3278	500 mg
B3278	1 g
B3278	5 g
B3278	10 g

References Lietzan AD, St Maurice M. Functionally diverse biotin-dependent enzymes with oxaloacetate decarboxylase activity. Arch Biochem Biophys. 2014 Feb 15;544:75-86. PMID: 24184447.

Trippier PC. Synthetic strategies for the biotinylation of bioactive small molecules. ChemMedChem. 2013 Feb;8(2):190-203. PMID: 23303486.

Zempleni J, Wijeratne SS, Hassan YI. Biotin. Biofactors. 2009 Jan-Feb;35(1):36-46. PMID: 19319844.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.